

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

Atty. Docket No.: 003797.00693

Mark CASEBOLT et al.

Serial No.: TBA

Group Art Unit: TBA

Filed: March 1, 2004

Examiner: TBA

For: Dynamically Adjusting Operation Of One Or More Sensors Of A Computer Input Device

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of good faith and candor as set forth in 37 C.F.R. §§ 1.56(a), 1.97 and 1.98 *et seq.*, Applicants submit herewith the attached Form PTO/SB/08A. Except for the one published U.S. Patent Application, Applicants have submitted each of the references cited on the attached Form PTO/SB/08A with this paper. Applicants respectfully request that the Examiner consider and enter all the documents cited on the enclosed Form PTO/SB/08A into the file of the above-identified application. Applicants also request an indication of the same by return of the Form PTO/SB/08A being initialed and dated by the Examiner.

Included in the documents listed on the attached Form PTO/SB/08A are the following patent applications:

U.S. Patent Application Ser. No. 10/305,062, titled "Photo-Sensor Array for Motion Detection," filed November 27, 2002

U.S. Patent Application Ser. No. 09/948,099, titled "Capacitive Sensing and Data Input Device Power Management," filed September 7, 2001 and published under No. 20020035701 on March 21, 2002 (now U.S. Patent 6,661,410)

U.S. Patent Application Ser. No. 10/058,384, titled "Proximity Sensor with Adaptive Threshold," filed on January 30, 2002

U.S. Patent Application Ser. No. 10/408,125, titled "Proximity Sensing Based on Antenna Impedance Variation," filed April 8, 2003

U.S. Patent Application Ser. No. 10/319,470, titled "Input Device with User-Balanced Performance and Power Consumption," filed December 16, 2002

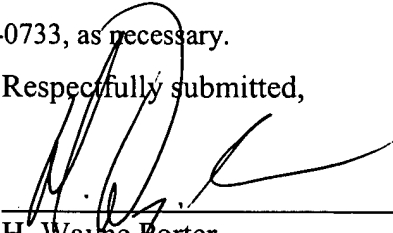
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No fees are believed due to ensure consideration of the attached documents by the Examiner. However, if any fees are required or an overpayment of fees made, the Commissioner is hereby authorized to debit or credit our Deposit Account No. 19-0733, as necessary.

Respectfully submitted,

Date: March 1, 2004

By:

  
\_\_\_\_\_  
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Attachments:

Form PTO/SB/08A  
References Cited on Form PTO/SB/08A

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

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of

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**Complete if Known**

Application Number

TBA

Filing Date

March 1, 2004

First Named Inventor

Mark CASEBOLT et al.

Group Art Unit

TBA

Examiner Name

TBA

Attorney Docket Number

003797.00693

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-20020035701	03/21/2002	Casebolt et al.	
		US- 10/305,062			
		US- 10/058,384			
		US- 10/408,125			
		US- 10/319,470			
		US-			
		US-			
		US-			

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Marcelo C. Algrain et al., "Accelerometer Based Line-of-Sight Stabilization Approach for Pointing and Tracking Systems," Second IEEE Conference on Control Applications, Vancouver BC, pp. 159-163 (Sept. 13-16, 1993),	
		Marcelo C. Algrain, "Gyroless line-of-sight stabilization for pointing and tracking systems," Optical Engineering, Vol. 33, No. 4, pp. 1255-1260 (April 1994).	
		Frank J. Almendinger et al., "Flight Motion Simulator Performance Improvements from Advanced Data Acquisition," Technologies for Synthetic Environments: Hardware in the Loop Testing VI, Proc. Of SPIE Vol. 4366, pp. 308-319 (2001).	
		Pierre R. Bélanger, "Estimation of Angular Velocity and Acceleration from Shaft Encoder Measurements," Proc. 1992 IEEE Int'l Conf. On Robotics & Automation, Nice, France, (May 1992), pp. 585-592.	
		Michel Chahine et al., "Motion-compensated interpolation using trajectories with acceleration," SPIE Symp. On Elec. Imaging, Digital Video Compression, vol. 2419, San Jose, CA (February 5-10, 1995).	
		Christopher Fagiani et al., "Evaluation of Tracking Methods for Human-Computer Interaction," Sixth IEEE Workshop on Applications of Computer Vision, Orlando, FL (December 3-4, 2002).	
		Seungbae Lee et al., "Two-Dimensional Position Detection System with MEMS Accelerometer for MOUSE Applications," Annual ACM IEEE Design Automation Conf., Proceedings of the 38 <sup>th</sup> Conf. On Design Automation, Las Vegas, NV (2001).	
		Anant Kartik Mithal et al., "Differences in Movement Microstructure of the Mouse and the Finger-Controlled Isometric Joystick," Conf. On Human Factors in Computing Systems, Proceeding of the SIGCHI Conf. On Human Factors in computing Systems: Common Ground, Vancouver, Canada, pp. 300-307 (ACM Press 1996).	
		Fabrizio S. Rovati et al., "Spatial-Temporal Motion Estimation for Image Reconstruction and Mouse Functionality with Optical or Capacitive Sensors," IEEE (2003).	

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1460, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, P.O. Box 1460, Alexandria, VA 22313-1450